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Vol. VI., No. 59.] BULLETIN OF THE TORREY BOTANICAL CLUB. [New York, Nov. 1879.

§ 358. Ballast Plants in New York City and its vicinity.

In the BULLETIN for Sept. and Nov., 1878, a list was given of ballast plants found last year at Hunter's Point and near Communipaw Ferry.

During the past season further collections have been made at those places and at other stations where ballast has been used for filling. Never before, probably, has so much been brought to this country during the same period as in the past two years. The continued large balance of trade in favor of the United States, during this time, has compelled a great many vessels, for want of freights on their westward trips from Europe, to come more or less laden with ballast. At the Atlantic Docks, Brooklyn, and on Gowanus Creek, vessels have for many months past been discharging it without cessation, night and day. A large part of it has been dumped upon sunken lots in the vicinity ; much of the rest, laden upon scows, has been taken to New York city and used in building up new streets on the low grounds in the vicinity of Harlem River.

Eighth Avenue, in 1877–1878, was thus filled in from its northern terminus, where it strikes Harlem River, down to about 140th street, a distance of more than half a mile, with an average filling of from 7 to 10 feet ; 107th Street, from Third to Fifth Avenue, and 102d Street, east of Second Avenue, were also thus filled a year or two since ; and 100th Street, east of Second Avenue, is now filling in a similar manner. In September last, when all these stations, except the 8th Ave. one, first became known to me, abundant evidence of ballast plants were still manifest at all of them except 100th Street, where the work of filling is still in progress. Other streets and low grounds will doubtless be found thus planted, if the sides of the filled-in streets are observed, and ballast plants looked for. *Diplotaxis tenuifolia*, with its long, nearly naked flowering stems, and large, pinnately lobed lower leaves, I have found to be an almost invariable index of ballast ground. *Atriplex rosea*, *Verbena officinalis* and *Mercurialis annua* are almost equally certain attendants. Where any of these are observed, further search is almost sure to be rewarded by many other foreign species.

Near the last of September, on returning from Snake Hill, the blossoms of Diplotaxis along the Rail Road track, near Hoboken, led to the recognition of ballast filling for the space of about a third of a mile, commencing half a mile west of the Hoboken Depot. Late as the season was, several things not elsewhere observed were found there, such as Anchusa, Pulicaria, Conyza, Carduus nutans, Rumex maritimus, besides others common to all the stations. In the fields near by, Diplotaxis tenuifolia and Rumex maritimus were very abundant and vigorous.

The station at 8th Avenue was first mentioned to me in July last, by the late Mr. Ruger, with whom, shortly before his death, I visited the grounds and found a rich harvest of introduced plants upon both slopes of the filled-in Avenue. The same region was visited by some members of the Club in 1878, but I have not learned that any record of their collections is preserved. A large portion of the list given below was found at that station.

At Communipaw Ferry, the site of last year's principal collections, the Rail Road Company has been very busy during the summer with improvements on the grounds lying near the track and within half a mile of the Ferry House, filling in some two or three feet above the former grade, and thus exterminating several species that had obtained a firm foothold there; among them *Lepidium Draba* and *Neslia paniculata*, which I have not found elsewhere. A number of species collected there in October, as stated below, are evidently from the recent filling. On an abandoned wharf near the Ferry, where last year's ballast lay undisturbed, some thirty foreign species were found. In the list given below none of the species reported last year are repeated; all of them, however, were found in the same localities, except Lepidium Draba, Rapistrum, Neslia, Portulaca, Gossypium, Coronilla, Arachis, Sida, Epilobium, Hypochaeris, Cichorium, Verbascum, Tencrium, Ervum, Flaveria and Leptochloa; and of these, Rapistrum, Sida, Epilobium and Hypochaeris have been found at one or more of the other stations; the others that were reported " abundant " last year are equally so this year at the same places, and their continuance is probable unless exterminated by " improvements."

At Hunter's Point, the spot where *Flaveria Contrayerba* grew abundantly last year, and, in fact, nearly the whole enclosure, was afterwards covered with new ballast. The Flaveria was destroyed, but from the new deposit has sprung a large number of the species found at the other stations. Most of the plants in the list, it will be observed, have been found at several of the different grounds; but at each station a few have been found not observed elsewhere. English and Norwegian vessels have brought the great bulk of all the ballast, but not from England or Norway chiefly. These vessels are largely carriers from other countries, and enquiry usually elicited no information as to the actual origin of the ballast so certain as that derived from the plants themselves. The species found are mainly natives of Britain, Germany and the Mediterranean region; a few belong to the West Indies and to Central and South America, and one to the Cape of Good Hope.

Neither the slopes of the filled-in streets, nor the dumping grounds now in use in this vicinity can afford any permanent lodgment to many of these waifs from abroad, nor are the localities such as to offer many of the plants an easy escape to congenial soil. While most of them will therefore perish after a few seasons, sufficient opportunity will nevertheless be afforded to some, not hitherto reported here, to test their endurance of our climate and to compete with our native growths. The less hardy plants will be ejected by our vigorous weeds; but Atriplex rosea, A. laciniata and Diplotaxis tenuifolia, and doubtless others, will maintain their ground. In the annexed list, Hunter's Point is indicated by " H. Pt.," Communipaw by "Com.," Gowanus by " Gow.," Eighth Avenue by " 8th Ave.," and Hoboken by " Hob."

The species marked by an asterisk (*) are not in the BULLETIN Catalogue; those printed in italics, though previously found more or less elsewhere, are not in Gray's Manual; and those in capitals have not to my knowledge been previously reported as growing wild in this country.

The analysis of many of these unfamiliar plants has been puzzling; some thistles and others, chiefly Compositae, still undetermined, are omitted; about half of the list, embracing nearly all about which any doubt was entertained, have been submitted to Dr. Gray and Prof. Watson, who have kindly corrected errors and supplied deficiencies in naming. Where not otherwise stated the plants are European. The numbers are continued from the former published lists, and only those plants have been included which have undoubtedly sprung from seeds introduced with ballast. Of those called "scarce" only from two to four specimens were found.

69. *_Ranunculus philonotis_, Ehr.—8th Ave. June. Scarce.
70. Papaver dubium, L.—H. Pt. June, July. "
71. P. somniferum, L.— " " " "
72. *Glaucium luteum, Scop.—Com., 8th Ave. June—Sept. Abundant.
73. Nasturtium palustre, DC., _var._ hispidum, DC.—Gow. Sept. Scarce. J. Schrenk.
74. N. sylvestre, R. Br.—8th Ave. July—Sept.
75. *_Diplotaxis tenuifolia_, DC.—common in all our ballast grounds. A different form, not identified as a different species, was also found at H. Pt. and 107th St., of smaller size, with leaves mostly at the base, entire, or slightly toothed, and with shorter petals and pedicels, probably var. _integrifolia_, Koch.
76. *_Brassica monensis_, Huds.—Hob. Oct. Scarce.
77. *ERYSIMUM ORIENTALE, L.—H. Pt., 8th Ave. July. Scarce.
78. *Alyssum calycinum, L.—Com. May. Scarce.
79. *_A. incanum_, R. Br.—8th Ave. Aug. Scarce.
80. *IBERIS UMBELLATA, L.—Com. July. J. Schrenk. 1 plant.
81. Draba verna, L.—H. Pt. June.
82. *LEPIDIUM GRAMINIFOLIUM, L.—Com , Hob. Aug.—Oct.
83. *Senebiera Coronopus, Poir.—8th Ave., Com. June—Sept. Abundant.
84. S. didyma, Pers.—H. Pt., Com. June—Sept. Abundant.
85. _Cakile maritima_, Scop.—Com., Gow. June—Sept. Abundant.
86. Reseda luteola, L.—H. Pt., Com., 8th Ave. June—Aug ; with R. lutea ; both abundant at 8th Ave.
87. R. odorata, L.—Com., H. Pt. June—Sept.
88. *_R. alba_, L.—Gow. Sept. A few specimens in fruit only.
89. *R. PHYTEUMA, L.—H. Pt., 8th Ave. July. Scarce.
90. *_Frankenia pulverulenta_, L.—Com. July. Scarce.
91. *_Lychnis chalcedonica_, L.—Com. July. Scarce.
92. *CERASTIUM TETRANDRUM, Curtis.—Com. Aug. Scarce.
93. *SILENE ANGLICA, L.—Com. Sept.—Oct. This may be _S. Gallica_, L., I cannot distinguish between the two, if different (?) Petals notched, ripe capsules mostly erect.
94. Silene noctiflora, L.—H. Pt. July—Aug. Scarce.
95. Linum usitatissimum, L.—Com., H. Pt. July—Sept.
96. *HYPERICUM HUMIFUSUM, L.—H. Pt. Aug.—Sept.
97. Malva sylvestris, L.—8th Ave. June—July.

98. *ALTHAEA HIRSUTA, L.—8th Ave. July.
99. *_Sida rhombifolia_, L.—Com. Aug. Soon buried up. Southern.
100. Hibiscus Trionum, L.—Com. Sept. Scarce.
101. *GERANIUM ROTUNDIFOLIUM, L.—Com., H. Pt. July—Sept.
102. Geranium pusillum, L.—Com., H. Pt. July—Sept.
103. Erodium cicutarium, L'Her.—Common. May—Sept.
104. *_Erodium moschatum_, L'Her.—Com. Oct. But without any odor of musk; reported this season at Phila., by Mr. Martindale.
105. *ULEX NANUS, Forster.—Com. Oct.; not in flower.
106. *ONONIS ARVENSIS, L.—8th Ave. Aug.—Sept. Scarce.
107. *_Trigonella monspeliaca_, L.—8th Ave. June. Scarce.
108. *Cassia occidentalis, L.—Com. Aug. 1 plant only, soon destroyed. Southern.
109. *MELILOTUS ARVENSIS, Wallroth.—Com. July.
110. *_Melilotus parviflora_, Dsf.—Com. Aug.—Oct.
111. *MELILOTUS GRACILIS, DC.—Com. Aug.—Oct.
112. Medicago sativa, L.—8th Ave. June.
113. Medicago maculata, Willd.—Com. June—Aug. Leaves only
114. *_Medicago denticulata_, Willd.—H. Pt. Aug. Scarce.
115. *MEDICAGO APICULATA, Willd.—H. Pt. Aug. Scarce.
116. *TRIFOLIUM INCARNATUM, L.—8th Ave. July. Scarce.
117. *TRIFOLIUM ELEGANS, Rchb.—Com. Aug. Scarce.
118. *_Trifolium hybridum_, L.—8th Ave. Sept. J. Schrenk.
119. Trifolium procumbens, L.—H. Pt., Com. June—Aug.
120. Trifolium minus, Smith.—H. Pt. Sept. Scarce.
121. *_Lotus corniculatus_, L.—8th Ave., H. Pt. July—Sept. Abundant.
122. *_Tribulus terrestris_, L.—H. Pt., Com. June—Sept. Several plants.
123. Vicia Cracca, L.—Com. Aug., with V. sativa.
124. Vicia hirsuta, Koch.—Com. Aug.—Oct., with V. tetrasperma.
125. *VICIA GRANDIFLORA, Scop.—8th Ave. July. Scarce.
126. *VICIA NARBONENSIS, L.—8th Ave. July. Scarce.
127. *VICIA PEREGRINA, L.—8th Ave. July, 1878. Scarce. King.
128. *_Lathyrus Aphaca_, L.—Com. 8th Ave. June—July.
129. *LATHYRUS SATIVUS, L.—Com. Oct. 1 plant only.
130. Potentilla anserina, L.—Com. June—July.
131. *EPILOBIUM PARVIFLORUM, Schrb.—H. Pt. Aug. With E. hirsutum. Gow. Sept. Scarce.
132. *_Ecballium agreste_, Rchb—H. Pt. Com. July—Sept.
133. Sicyos angulatus, L.—8th Ave. Aug.
134. Aethusa Cynapium, L.—8th Ave., H. Pt. July—Sept.
135. Galium verum, L.—Com. June. N. L. Britton.
136. *GALIUM TRICORNE, With.—Com., 8th Ave., H. Pt. June—Aug.
137. *EUPATORIUM CANNABINUM, L.—Gow., 8th Ave. Aug.—Sept.
138. *ASTER TRIPOLIUM, L.—8th Ave. July—Sept. (The only English Aster.)
139. *CONYZA ALBIDA, Less.—Hob. Sept.—Oct. Abundant. South America or W. Indies, (Erigeron albidum.)
140. _Bellis perennis_, L.—H. Pt. Sept. One specimen.
141. *INULA DYSENTERICA, L.—Hob. Oct. Scarce.

142. *INULA PULICARIA, L.—Hob. Oct. 2 plants only.
143. *FILAGO ARVENSIS, L.—H. Pt. July—Aug.
144. Gnaphalium uliginosum, L.—H. Pt. June—Oct.
145. *GNAPHALIUM LUTEO-ALBUM, L.—8th Ave. July. Scarce.
146. Xanthium spinosum, L.—H. Pt. Aug.—Sept.
147. *_Acanthospermum xanthioides_, DC.—8th Ave. Sept. Southern. N. L. Britton.
148. *BIDENS TRIPARTA, L.—H. Pt. July. Scarce.
149. *_Bidens leucantha_, Willd.—Com. Oct. Cal. J. Schrenk.
150. *_Hemizonia pungens_, Torr. & Gray.—H. Pt. July. Cal. 1 plant only.
151. *_Chrysanthemum segetum_, L.—8th Ave. July—Sept.
152. *Chrysanthemum Parthenium, Pers. "
153. Artemisia vulgaris, L.—Com. Aug.—Sept.
154. *CENIA TURBINATA, Pers.—(Cotula turbinata, L.,)—Com. Oct. Cape of Good Hope. Scarce. Identified by Dr Gray. A low decumbent plant with fine inodorous foliage—heads 6″; rays 1″, white above, pink beneath; peduncle, beneath the receptacle, enlarged, hollow, (kenos), and turbinate; rays with 2–3 lobed lip at the base of the interior surface: interior florets regular and 4 lobed.
155. Senecio vulgaris, L.—Common. July—Sept.
156. *Carduus nutans, L.—Hob. Oct.
157. *_Carduus pycnocephalus_, Jacq.—8th Ave., H. Pt. June—July.
158. *CARDUUS MARIANUS, L.—8th Ave. July—Sept.
159. *Cirsium arvense, Scop. _var. integrifolium_, Koch.—8th Ave. July.
160. Centaurea Cyanus, L.—8th Ave. July.
161. *CENTAUREA JACEA, L.(?)—Com. With appendages broad, concave, mucronate, mostly entire, scarious, dark brown in the centre. Scarce. July—Oct. J. Schrenk.
162. *CENTAUREA ASPERA, L.—H. Pt. Sept. Scarce.
163. *_Centaurea solstitialis_, L.—Com. Aug. J. Schrenk.
164. *Centaurea Calcitrapa, L.—H. Pt., 8th Ave. Aug.—Sept.
165. *_Helminthia echioides_, Gärtn.—H. Pt., 8th Ave. July—Sept.
166. *Leontodon autumnale, L.—8th Ave. Aug.—Sept.
167. *_Leontodon_ (_Thrincia_) _hirtum_, L.—8th Ave., H. Pt. Aug.—Sept.
168. *LEONTODON HISPIDUM, L. (?)—H. Pt. Aug. Scarce.
169. *LEONTODON PRATENSE, Koch. " " "
170. *_Crepis virens_, Vill.—8th Ave., H. Pt., Hob. July—Oct.
171. *_Crepis tectorum_, L.—H. Pt. Aug.—Sept.
172. *_Hieracium_ —(?)—8th Ave. July. J. Schrenk.
173. *Lactuca Scariola, L.—Com. Aug. Scarce.
174. *SONCHUS TENERRIMUS, L.—Com. Oct. Scarce.
175. *JASIONE MONTANA, L.—8th Ave., H. Pt. Aug.—Oct. Flowers blue, in globular heads, like Scabius.
176. *_Specularia Speculum_, DC.—Com. June. Scarce.
177. *_Heliotropium Peruvianum_, Don.—8th Ave., H. Pt. June—Sept.
178. Heliotropium Europaeum, L.—Com., 8th Ave., H. Pt. July—Oct.. Abundant.

179. Lycopsis arvensis, L.—H. Pt. June—Sept.
180. *ANCHUSA OFFICINALIS, Don.—Hob. Sept.—Oct.
181. *ANCHUSA LEPTOPHYLLA, R.& S. (?) Com. Oct. (Hairs closely appressed and soft ; may be Echinospermum young.)
182. *ECHIUM VIOLACEUM L.—Com., 1st Ave. July—Sept. The stamens exceed the corolla; but the narrow root leaves and pungent, tubercled hairs of the foliage belong to E. violaceum, rather than to E. plantagineum L.
183. *Ipomoea Nil, Roth.—8th Ave. Oct. J. Schrenk.
184. **Solanum miniatum*, Bernh.—8th Ave., Hob. Aug.—Oct. (Berries red.)
185. **Solanum rostratum*, Dunal.—8th Ave. Sept. Western. Dr. Koehler.
186. Nicandra physaloides, Gaert.—H. Pt., Com. Aug.
187. Hyoscyamus niger, L.—Com., 8th Ave., H. Pt. May—Sept.
188. **Petunia parviflora*, Juss.—H. Pt. Aug.—Oct. Scarce.
189. **Linaria supina*, Desf.—Gow. Sept. J. Schrenk.
190. *LINARIA STRIATA,, DC. (L. repens, Ait.)—Com. July. Scarce.
191. *Linaria Elatine, Mill.—Com., H. Pt. July—Aug.
192. *Antirrhinum majus, L.—H. Pt. July—Sept.
193. *Antirrhinum Orontium, L.—Com. July—Oct. Scarce.
194. **Scrophularia aquatica*, L.—Gow., 8th Ave., H. Pt. Aug.
195. **Scrophularia canina*, L.—Com. Sept. Scarce. J. Schrenk.
196. Veronica Anagallis, L.—Gow., 8th Ave. Aug.—Sept.
197. *VERONICA BECCABUNGA, L.—Gow. Sept. (Type.)
198. Veronica arvensis, L.—H. Pt. Aug.
199. Veronica agrestis, L.—Com., H. Pt. July—Sept.
200. *Veronica Buxbaumii, Ten.—H. Pt., 8th Ave. June—Aug.
201. **Sesamum Indicum*, L.—Com. Aug. Soon buried up.
202. * *Verbena bracteosa*, Michx.—H. Pt. Aug. Western.
203. *Mentha arvensis, L.—H. Pt., Gow., with M. aquatica.
204. *Lycopus Europaeus, L.—Gow., 8th Ave. July—Sept. (Type.)
205. *Satureia hortensis, Tourn.—8th Ave., Aug.
206. *SATUREIA MONTANA, L.—8th Ave. Aug. J. Schrenk.
207. *Ballota nigra, L.—Gow. Sept.
208. **Leonurus Sibericus.* L.—Com. Aug. 1 plant only.
209. Lamium amplexicaule, L.—Com., H. Pt. May—June.
210. *Lamium purpureum, L.—H. Pt. June.
211. *Lamium album, L.—H. Pt., 8th Ave. July—Oct.
212. Galeopsis Ladanum, L.—8th Ave. June—Sept. 1 plant only.
213. *Stachys arvensis, L.—H. Pt., Com., 8th Ave., Hob. July, with S. annua.
214. **Stachys sylvatica*, L.—H. Pt., Gow. July—Oct.
215. *Stachys palustris, L.—8th. Ave. July—Sept. (Type.)
216. *Amarantus sanguineus, L.—8th Ave. Sept.
217. Amarantus deflexus, L. (A prostratus, Balb.)—H. Pt., Com. Sept.
218. **Amarantus crispus*, Braun.—Streets, Gow: Aug.—Oct.
219. **Chenopodium Vulvaria*, L.—H. Pt., Com. Ruger.
220. *Chenopodium polyspermum, L.—H. Pt., Com. July—Sept.
221. Chenopodium murale, L. (?) H. Pt., Com. July.

222. Blitum capitatum, L.—8th Ave. July. Ruger.
223. Atriplex patula, L. _var. angustifolia_ (sp. Sm.) prostrate. H. Pt.
224. *ATRIPLEX HORTENSIS, L.—Gow. Sept. J. Schrenk.
225. *ATRIPLEX LACINIATA, L.—At 8th Ave., and Hob. only, with _A. rosea_, June—Oct. Gathered last year at Philadelphia, and distributed under the name of _A. rosea_, from which however it strikingly differs in its long (3′—10′) terminal spikes of (mostly) infertile flowers, and in its more deeply sinuate and often pointed leaves, and in its less spreading and less rigid branches. _A. rosea_, precisely answering to the description in the appendix to Gray's Manual, is very common in all our ballast grounds. Its form is everywhere the same—terminal spikes of less than 1′, and with rhomboidal leaves, merely sinnate toothed, with very spreading, rigid branches. The confusion about these two species in some of the books could not, I think, arise with our specimens in view
226. *BETA MARITIMA, L.—8th Ave. Sept.—Oct. Spikes prostrate.
227. *Polygonum lapathifolium, L.—8th Ave., H. Pt. July—Sept., nearly glandless, leaves marked by a large (6″) jet black spot, more vivid and sharply defined than in P. Persicaria. Also _var._ incanum (spec. Koch.) H. Pt. J. Schrenk.
228. Polygonum Convolvulus, L.—Com., 8th Ave. Aug.
229. *Rumex Patientia, L.—Com. July.
230. *Rumex maritimus, L.—Hob. Oct. Abundant and spreading.
231. *Urtica urens, L.—H. Pt., Com. June—Aug.
232. Urtica dioica, L.—H. Pt.
233. *PARIETARIA OFFICINALIS, L.—Com., Gow. July—Sept.
234. *_Ricinus communis_, L.—Com. Sept.—Oct. Flowers. 20 plants. Southern.
235. *_Euphorbia Peplis_, L.—Com. Aug. Scarce.
236. *Euphorbia helioscopia, L.—H. Pt. June.
237. *Euphorbia platyphyllos, L.—Com. Aug. 1 plant.
238. *EUPHORBIA PEPLUS, L.—8th Ave. Abundant.
239. *EUPHORBIA EXIGUA, L.—8th Ave. July. Scarce.
240. *ANTHERICUM RAMOSUM, L(?)—Com. Oct.
241. *ALOPECURUS AGRESTIS, L.—8th Ave. July. Ruger. [Also Com.]
242. _Agrostis Spica-venti_, L.—8th Ave. June. Ruger.
243. Eragrostis Purshii, Schr.—H. Pt., with E. poaeoides _var._ megastachya.
244. Dactylis glomerata, L.—8th Ave. July.
245. Festuca ovina, L:—Com. June.
246. Bromus racemosus, L.—8th Ave. Com. July—Sept.
247. Bromus mollis, L.—Com. May.
248. Bromus sterilis, L.—Com: June.
249. Lolium perenne, L.—H. Pt., 8th Ave. July—Oct.
250. Aira caryophyllea, L.—H. Pt. Oct. Leggett.
251. Holcus lanatus, L.—8th Ave. July.
252. Phalaris Canariensis, L.—Com. May—July.
253. CORYNEPHORUS CANESCENS, Beauv.—Hob. Oct. J. Schrenk.
254. Glyceria distans, Wahl.—Com. July. J. Schrenk.

255. *Hierochloa australis*, K. & S.—Com. "

256. *Panicum miliaceum.*—Com. 8th Ave. July.

257. Setaria verticillata, S. glauca and S. viridis. H. Pt., with Crypsis schoenoides, Lam.

258. *Tragus racemosus*, Desf. (Lappago recemosa, Schreb; Cenchrus racemosus, L.)—8th Ave., 1878, King. Reported also at Philadelphia by Mr. Martindale.

Nov. 1st 1879. ADDISON BROWN.

§ 359. New or Little-known Ferns of the United States, No. 7.

21. **Pellæa andromedæfolia**, var. **rubens**:—Upper surface of pinnules and the involucres deep red, otherwise like the type.

This beautiful variation of a well-known Californian fern has been sent to me several times by Mrs. Cooper, who has not stated the exact locality where it was found, but it was probably not far from Santa Barbara. In the dried specimens the color is a dark blood-red, but in the living plant the color must be much brighter. Young fronds of *Adiantum macrophyllum* and *Blechnum serrulatnm*, and of a few other ferns are often very prettily tinged with red. *Polypodium appendiculatum* of Klotzsch has the rachis and veins colored bright red; but I do not know of any other fern besides the one here described which has the whole upper surface red in the mature frond. The rachises are colored, but less vividly than the pinnules.

22. **Aspidium Oreopteris**, Swartz.—"Caudex short, erect or decumbent, copiousiy scaly: stipites short, tufted, scaly below: fronds 1½—2 feet long, firm-membranaceous, broad-lanceolate, gradually tapering and attenuated below, glandular; pinnæ two to three inches long, patent, sessile, from a broad base lanceolate-acuminate, deeply (more than half way down) pinnatifid, from near the middle of the frond gradually becoming shorter downward, more distant and deltoid, the lowest less than an inch long; segments plane, nearly entire, oblong, very obtuse; veins simple or forked: sori quite marginal; involucres very delicate, membranaceous, more or less toothed at the margin, soon obsolete; rachis often subulato-squamose; costæ pubescent."—HOOKER, *British Ferns*, t. 14.

Hab.—Unalaska, collected in 1878 by Mr. S. M. Turner, who sent with it this note: "Abundant enough; grows four feet high in patches of many yards square, in the ravines and wet places." This fern has been attributed to America on the strength of a frond of unknown origin found in the herbarium of Mr. Dawson Turner, and of another in the collection of Rev. W. A. Leighton, said to be from Vermont. The present specimens consist of five fronds, evidently selected beause they were smaller than most of those seen in Unalaska, being only about fifteen inches long. One of them is so young as to retain the indusium. There can be no doubt of the origin of the specimens, or that they are true A. Oreopteris. The species is common in Europe, from Lapland to Spain and Madeira in the west to Lithuania and the Polish provinces in the east. It has also been collected in Asia Minor, but is unknown throughout Siberia. Mr. Turner's other Unalaska Ferns are *Polypodium vulgare*, *Adiantum pedatum*, *Cryptogramme acrostichoides*, *Phegopteris polypodioides*, *Ph.*